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Known. Please attach a copy of the cover sheet, pertinent claims, and abstract. Title of Invention: Proanthocyane dines for the treatment?	
Title of Invention: 11000 Company of at the phan-synaction	
Inventors (please provide full names): amyloid + alpha-synaclia	
Earliest Priority Filing Date: 3/18/200/	
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the	
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For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.	
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Date Completed: 90303 Litigation Lexis/Nexis	
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Online Time: _



STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 104288

TO: Shaojia A Jiang

Location:

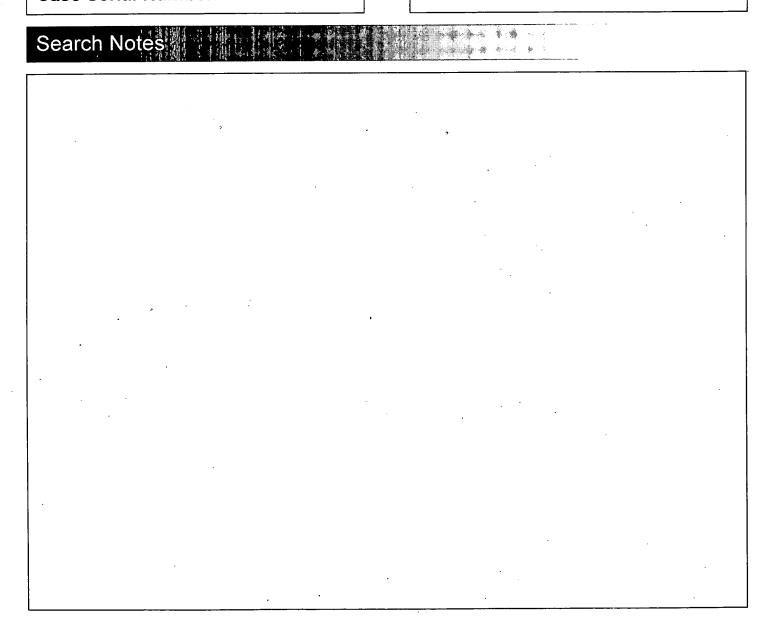
Art Unit: 1617

September 22, 2003

Case Serial Number: 10/077596

From: P. Sheppard Location: CM1-1E03 Phone: (703) 308-4499

sheppard@uspto.gov



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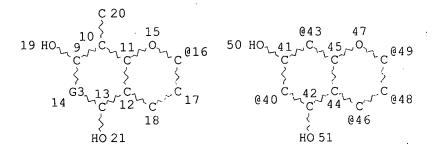
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=> =>

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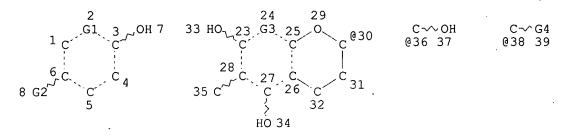
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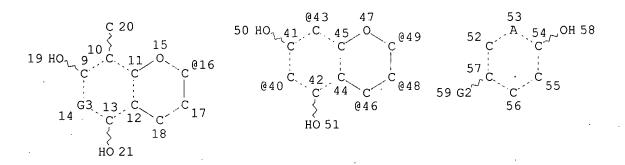
NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

L7 536 SEA FILE=REGISTRY SSS FUL L5

L8 STR





VAR G1=CH/36 VAR G2=16/30 VAR G3=CH/38 VAR G4=43/49/48/46/40 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM MLEVEL IS CLASS AT 53 DEFAULT ECLEVEL IS LIMITED ECOUNT IS UNLIMITED AT 53

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 58

STEREO ATTRIBUTES: NONE

8 SEA FILE=REGISTRY SUB=L7 SSS FUL L8 L92 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 L10

=> =>

=> d ibib abs hitrn 110 1-2

HCAPLUS COPYRIGHT 2003 ACS on STN L10 ANSWER 1 OF 2

ACCESSION NUMBER: 2001:809679 HCAPLUS

DOCUMENT NUMBER: 136:101325

Isolation and Structures of Oligomeric Wine Pigments TITLE:

by Bisulfite-Mediated Ion-Exchange Chromatography

Asenstorfer, Robert E.; Hayasaka, Yoji; Jones, Graham AUTHOR(S):

CORPORATE SOURCE: Department of Horticulture Viticulture and Oenology, University of Adelaide, Glen Osmond, 5064, Australia

SOURCE: Journal of Agricultural and Food Chemistry (2001), 49(12), 5957-5963

CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB Methods have been developed that are based on cation exchange chromatog. in the absence and presence of excess bisulfite for the isolation of wine pigments from Australian red wine and grape marc ext. The pigments were identified using HPLC and electrospray ionization mass spectrometry. The mass spectral data indicate that these pigments are C4-substituted anthocyanins with a tetracyclic structure. The pigments form a series of closely related oligomeric pigments which include those previously described in the literature, such as pigment A and vitisin A, as well as some newly identified pigments.

IT 388089-44-9 388089-45-0 388089-46-1 388089-47-2 388089-48-3 388089-49-4

388089-62-1

RL: ANT (Analyte); NPO (Natural product occurrence); ANST (Analytical

study); BIOL (Biological study); OCCU (Occurrence)

(isolation and structures of oligomeric wine pigments by

bisulfite-mediated ion-exchange chromatog.)

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1992:469641 HCAPLUS

DOCUMENT NUMBER: 117:69641

TITLE: Synthesis of condensed tannin derivatives regiospecifically linked through a single

interflavanoid-linkage and their protein-precipitating

capacities

AUTHOR(S): Kawamoto, Haruo; Nakatsubo, Fumiaki; Murakami, Koji

CORPORATE SOURCE: . Fac. Agric., Kyoto Univ., Kyoto, 606-01, Japan

SOURCE: Mokuzai Gakkaishi (1991), 37(8), 741-7

CODEN: MKZGA7; ISSN: 0021-4795

DOCUMENT TYPE: Journal LANGUAGE: English

AB Condensed tannin derivs. (dimers, trimers and oligomers) with only C(4)-C(6) or C(4)-C(5) interflavonoid-linkages were synthesized from 8-methyl- or 6-methyl-flavan-3,4-diol. From a comparison of their protein-pptg. capacities, the following relationships between the mode of interflavanoid-linkage or the d.p. of condensed tannin and the protein-pptg. capacity were obtained. Monomers and dimers have no protein-pptg. capacities and the protein-pptg. capacity increases with an increase in the mol. wt. of condensed tannin. Condensed tannins linked through C(4)-C(6) linkage have greater protein-pptg. capacity than those linked through C(4)-C(8) linkage and this tendency is remarkable for trimers.

IT 141238-49-5P

=> fil caold

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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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=> => s 19 L11 0 L9

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STRUCTURE FILE UPDATES: 22 SEP 2003 HIGHEST RN 591204-55-6 DICTIONARY FILE UPDATES: 22 SEP 2003 HIGHEST RN 591204-55-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L9 ANSWER 1 OF 8 REGISTRY. COPYRIGHT 2003 ACS on STN

RN 388089-62-1 REGISTRY

CN 1-Benzopyrylium, 4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3-(.beta.-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C91 H89 O36 . Cl

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 3-A

• Cl-

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:101325

L9 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2003 ACS on SIN

RN 388089-49-4 REGISTRY

CN 1-Benzopyrylium, 4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-3-[[6-0-[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-.beta.-D-glucopyranosyl]oxy]-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C83 H79 O32 . Cl

SR CA

LC STN Files: CA, CAPLUS

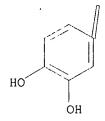
Absolute stereochemistry. Double bond geometry unknown.

PAGE 2-A

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PAGE 3-A

PAGE 4-A



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:101325

L9 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

8N 388089-48-3 REGISTRY

1-Benzopyrylium, 3-[(6-0-acetyl-.beta.-D-glucopyranosyl)oxy]-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C76 H75 O31 . Cl

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

● C1 -

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:101325

L9 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 388089-47-2 REGISTRY

CN 1-Benzopyrylium, 4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3-(.beta.-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C74 H73 O30 . C1

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 3-A

● C1 -

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:101325

L9 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 388089-46-1 REGISTRY

CN 1-Benzopyrylium, 4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-3-[[6-0-[3-(4-hydroxyphenyl)-1-oxo-2-propenyl]-.beta.-D-glucopyranosyl]oxy]-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C66 H63 O26 . Cl

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry. Double bond geometry unknown.

PAGE 1-A

PAGE 2-A

PAGE 3-A .

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:101325

L9 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 388089-45-0 REGISTRY

CN 1-Benzopyrylium, 3-[(6-O-acetyl-.beta.-D-glucopyranosyl)oxy]-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C59 H59 O25 . Cl

SR ĊA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

PAGE 3-A

● Cl-

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:101325

L9 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN

RN 388089-44-9 REGISTRY

CN 1-Benzopyrylium, 4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-4-[(1R)-1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3-(.beta.-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C57 H57 O24 . Cl

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

PAGE 3-A

Cl-

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE. 1: 136:101325

STN Files:

LC

CA, CAPLUS

ANSWER 8 OF 8 REGISTRY COPYRIGHT 2003 ACS on STN L9 RN 141238-49-5 REGISTRY [4,6':4',6''-Ter-2H-1-benzopyran]-3,3',3'',5,5',5'',7,7',7''-nonol, CN 2,2',2''-tris(3,4-dihydroxyphenyl)-3,3',3'',4,4',4''-hexahydro-8,8',8''trimethyl-, [2.alpha.,3.beta.,4.alpha.[2'R*,3'S*,4'R*(2''R*,3''S*)]]-(CA INDEX NAME) (9CI) OTHER CA INDEX NAMES: [4,6':4',6''-Ter-2H-1-benzopyran]-3,3',3'',5,5',5'',7,7',7''-nonol, 2,2',2''-tris(3,4-dihydroxyphenyl)-3,3',3'',4,4',4''-hexahydro-8,8',8''trimethyl-, [2.alpha.,3.beta.,4.alpha.[2'R*,3'S*,4'R*(2''R*,3''S*)]]-(.+-.) -C48 H44 O18 MF SR CA

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1: 117:69641 REFERENCE

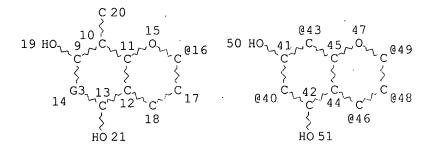
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VAR G1=CH/36 VAR G2=16/30 VAR G3=CH/38 VAR G4=43/49/48/46/40 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 50

STEREO ATTRIBUTES: NONE

L7 536 SEA FILE=REGISTRY SSS FUL L5

L8 STR

VAR G1=CH/36 VAR G2=16/30 VAR G3=CH/38 VAR G4=43/49/48/46/40 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM MLEVEL IS CLASS AT 53

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS UNLIMITED AT 53

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 58

STEREO ATTRIBUTES: NONE

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PROANTHOCYANIDINS/BI)								
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L16	. 15	SEA	FILE=HCAPLUS ABI	B=ON PLU=	ON L15	AND L13		
L17	110	SEA	FILE=HCAPLUS ABI	B=ON PLU=0	ON L13	(L)(PLANT OR TEA)		
L18	3788	SEA	FILE=HCAPLUS ABI	B=ON PLU=(ON L3 C	OR L4 OR CHOLROGEN? OR		
EPICATECHIN OR EPIAFZELECHIN								
L19	7	SEA	FILE=HCAPLUS ABI	B=ON PLU=	ON L18	AND L17		
L20	. 19	SEA	FILE=HCAPLUS ABI	B=ON PLU=	ON L16	OR L19		

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=> d ibib abs hitrn 120 1-19
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L20 ANSWER 1 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:193543 HCAPLUS

DOCUMENT NUMBER: 138:367880

TITLE: Evaluation of the anti-oxidative effect (in vitro) of

tea polyphenols

AUTHOR(S): Hashimoto, Fumio; Ono, Masateru; Masuoka, Chikako;

Ito, Yasuyuki; Sakata, Yusuke; Shimizu, Keiichi;

Nonaka, Gen-Ichiro; Nishioka, Itsuo; Nohara, Toshihiro CORPORATE SOURCE: Faculty of Agriculture, Kagoshima University, Korimoto

1-21-24, Kagoshima, 890-0065, Japan

SOURCE: Bioscience, Biotechnology, and Biochemistry (2003),

67(2), 396-401

CODEN: BBBIEJ; ISSN: 0916-8451

PUBLISHER: Japan Society for Bioscience, Biotechnology, and

Agrochemistry

DOCUMENT TYPE: Journal LANGUAGE: English

AB Forty-three polyphenols from tea leaves were evaluated for their anti-oxidative effect against lipid peroxidn. by the ferric thiocyanate method in vitro. Among these, 1,4,6-tri-O-galloyl-.beta.-D-glucose (hydrolyzable tannin) showed the highest anti-oxidative activity against lipid peroxidn., even stronger than that of 3-tert.-butyl-4-hydroxyanisole (BHA). The assay demonstrates that tea polyphenols, except for desgalloylated dimeric proanthocyanidins that possess a catechin structure in the upper unit and desgalloylated flavan-3-ols, and excepting theaflavin 3,3'-di-O-gallate, had more anti-oxidative activity than that of .alpha.-tocopherol. The chem. structure-activity relationship shows that the anti-oxidative action advanced with the condensation of two mols. of flavan-3-ols as well as with 3-O-acylation in the flavan skeleton such as that by galloyl, (3'-O-methyl)-galloyl, and p-coumaroyl groups.

IT 490-46-0, (-)-Epicatechin 24808-04-6, (-)-

Epiafzelechin 29106-49-8, Procyanidin B-2

121795-66-2, Assamicain A 121795-67-3, Assamicain C

121844-27-7, Assamicain B 126716-09-4,

Didesgalloyloolonghomobisflavan A 126737-60-8,

Oolonghomobisflavan A

RL: BSU (Biological study, unclassified); BIOL (Biological study) (in vitro antioxidative effects of tea polyphenols against

lipid peroxidn.)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:392918 HCAPLUS

DOCUMENT NUMBER: 137:62456

TITLE: Effect of oxygenation on polyphenol changes occurring

in the course of winemaking

AUTHOR(S): Atanasova, Vessela; Fulcrand, Helene; Cheynier,

Veronique; Moutounet, Michel

CORPORATE SOURCE: INRA-UMR Sciences pour l'Oenologie, Montpellier,

34060, Fr.

SOURCE: Analytica Chimica Acta (2002), 458(1), 15-27

CODEN: ACACAM; ISSN: 0003-2670

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The influence of controlled oxygenation on the color and phenolic compn. of red wine was studied by UV-VIS spectrophotometry, liq. chromatog. (LC) coupled to diode array detection (DAD) and electrospray ionization mass

spectrometry, and thiolysis. The comparison between the control and oxygenated wines demonstrated changes in color characteristics along with a significant increase in concns. of pyranoanthocyanins, ethyl-bridged compds. and derived pigments both with storage time and with oxidn. Principal component anal. was applied to wine anal. data measured throughout the conservation period. The effect of the storage time and oxygenation was clearly reflected. Mass-spectrometric anal. of the wines demonstrated the presence of compds. which are markers of reactions involving acetaldehyde. Two types of mechanisms were obsd. concerns acetaldehyde condensation reactions and the second, the cycloaddn. process between anthocyanins and flavanols mediated by acetaldehyde, generating tannin-pyranoanthocyanins. The presence in wines of trimeric structures resulting from these mechanisms, as well as the $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($ results obtained after thiolysis of the fraction contq. polymeric species obtained by Fractogel chromatog., confirm that proanthocyanidins react with acetaldehyde in the same way as flavanol monomers.

189073-31-2 439791-73-8

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(oxygenation effect on polyphenols during winemaking)

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 43 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

2002:211103 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 138:163393

TITLE: Proanthocyanidin glycosides and related

polyphenols from cacao liquor and their antioxidant

effects

Hatano, Tsutomu; Miyatake, Haruka; Natsume, Midori; AUTHOR(S):

Osakabe, Naomi; Takizawa, Toshio; Ito, Hideyuki;

Yoshida, Takashi

Faculty of Pharmaceutical Sciences, Okayama CORPORATE SOURCE:

University, Tsushima, Okayama, 700, Japan

Phytochemistry (2002), 59(7), 749-758 CODEN: PYTCAS; ISSN: 0031-9422 SOURCE:

Elsevier Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

Purifn. of polar fractions from cacao liquor exts. gave 17 phenolics including four new compds. The new compds. were characterized as a C-glycosidic flavan, an O-glycoside of a dimeric and two O-glycosides of trimeric A-linked proanthocyanidins, on the basis of spectroscopic data. Isolated polyphenols showed inhibitory effects on NADP-dependent lipid peroxidn. in microsomes and on the autoxidn. of linoleic acid. These effects were attributed to the radical-scavenging activity in the peroxidn. chain reactions, based on the findings that the cacao polyphenols effectively scavenged the 1,1-diphenyl-2-picrylhydrazyl radical.

12798-57-1, Procyanidin B5 29106-49-8, Procyanidin B2 ΙT 37064-30-5, Procyanidin C1

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (proanthocyanidin glycosides and related polyphenols from

cacao liquor and their antioxidant effects)

41743-41-3P, Proanthocyanidin A2 81555-08-0P, IT

Bis-8,8'-catechinylmethane 103883-03-0P,

Proanthocyanidin Al

RL: NPO (Natural product occurrence); PUR (Purification or recovery); BIOL . (Biological study); OCCU (Occurrence); PREP (Preparation)

(proanthocyanidin glycosides and related polyphenols from

cacao liquor and their antioxidant effects)

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 24 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L20 ANSWER 4 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN
                          1996:190224 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                          124:331679
                         Anti-AIDS agents. 24. Evaluation of tea
TITLE:
                          polyphenols as anti-HIV agents
                         Hashimoto, Fumio; Kashiwada, Yoshiki; Nonaka,
Genichiro; Nishioka, Itsuo; Nohara, Toshihiro;
Cosentino, L. Mark; Lee, Kuo-Hsiung
AUTHOR(S):
                          Sch. Pharmacy, Univ. North Carolina, Chapel Hill, NC,
CORPORATE SOURCE:
                          27599, USA
                          Bioorganic & Medicinal Chemistry Letters (1996), 6(6),
SOURCE:
                          695-700
                          CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:
                         Elsevier
DOCUMENT TYPE:
                          Journal
                         English
LANGUAGE:
     Thirty-eight tea polyphenols were evaluated for their inhibitory
     effect against HIV replication in H9 lymphocyte cells.
     8-C-ascorbyl-(-)-epigallocatechin and theasinensin-D demonstrated
    relatively potent anti-HIV activity with EC50 values of 4 and 8 .mu.g/mL
     and therapeutic indexes of 9.5 and 5, resp.
     490-46-0 24808-04-6 121795-66-2
     121795-67-3 121844-27-7 126716-06-1
    126737-60-8 176107-91-8
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (evaluation of tea polyphenols as anti-HIV agents)
L20 ANSWER 5 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN
                         1995:195660 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         122:30169
                         Chemical evidence for the de-astringency
TITLE:
                          (insolubilization of tannins) of persimmon fruit
                         Tanaka, Takashi; Takahashi, Ryuji; Kouno, Isao;
AUTHOR(S):
                         Nonaka, Gen-ichiro
                         Fac. Pharm. Sci., Nagasaki Univ., Nagasaki, 852; Japan
CORPORATE SOURCE:
SOURCE:
                         Journal of the Chemical Society, Perkin Transactions
                          1: Organic and Bio-Organic Chemistry (1994), (20),
                          3013-22
                          CODEN: JCPRB4; ISSN: 0300-922X
PUBLISHER:
                         Royal Society of Chemistry
DOCUMENT TYPE:
                         Journal
                                                                                  102
LANGUAGE:
                          English
    After artificial removal of the astringency from persimmon fruit by
     treatment with ethanol, thiol-promoted degrdn. of the insolubilized
    proanthocyanidin polymers with 2-sulfanylethanol yielded
     4.beta.-(2-hydroxyethylsulfanyl)-6- and -8-[1-(2-
     hydroxyethylsulfanyl)ethyl]-flavan-3-ols. Furthermore, when deuteriated
     ethanol was used for de-astringency, the deuterium atoms were incorporated
     into the C2 unit attached to the A-ring of these compds. These findings
     evidently show that acetaldehyde formed in situ from ethanol plays an
     important role in polymn. (insolubilization) of water-sol.
    proanthocyanidins, causing the loss of astringency.
    159663-06-6P 159663-07-7P 159663-11-3P
     159663-14-6P
     RL: PRP (Properties); PUR (Purification or recovery); PREP (Preparation)
        (isolation and NMR data for thiol-promoted degrdn. products from
        deastringent persimmon fruit ext.)
     159663-01-1P 159663-02-2P
ΙT
     RL: PRP (Properties); PUR (Purification or recovery); RCT (Reactant); PREP
```

(Preparation); RACT (Reactant or reagent)

```
(isolation and desulfurization of and NMR data for thiol-promoted
        degrdn. products from deastringent persimmon fruit ext.)
     159663-04-4P 159663-05-5P 159663-08-8P
ΙT
     159663-09-9P 159663-10-2P 159663-15-7P
     RL: PRP (Properties); PUR (Purification or recovery); RCT (Reactant); PREP
     (Preparation); RACT (Reactant or reagent)
        (isolation and hydrolysis of and NMR data for thiol-promoted degrdn.
        products from deastringent persimmon fruit ext.)
     159663-12-4P 159663-13-5P 159702-16-6P
     RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
        (prepn. and NMR data for)
     159663-03-3
IT
     RL: PRP (Properties)
        (spectral properties of)
    ANSWER 6 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN
                        1994:253139 HCAPLUS
ACCESSION NUMBER:
                        120:253139
DOCUMENT NUMBER:
                        Anti-HIV tannins from Camellia japonica and related
TITLE:
                        plant species
                        Hatano, Tsutomu; Han, Li; Taniguchi, Shoko; Chou,
AUTHOR(S):
                        Tong; Shingu, Tetsuro; Sakagami, Hiroshi; Takeda,
                        Minoru; Nakashima, Hideki; Murayama, Tsutomu; et al.
                       Fac. Pharm. Sci., Okayama Univ., Okayama, 700, Japan
CORPORATE SOURCE:
                        Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1992),
SOURCE:
                         34th, 510-517
                        CODEN: TYKYDS
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         Japanese
     Eight new tannins named camelliatannins A-H were isolated from the leaf of
AΒ
     Camellia japonica (Theaceae). Structural study revealed that
     camelliatannins A (10), B (11), C (12), E (14), F (15) and G (16) are
     complex tannins consisting of a monomeric hydrolyzable tannin and
     epicatechin, and camelliatannin H (17) is a dimeric hydrolyzable
     tannin. Camelliatannin D (13) is the first example of complex tannin
     composed of a dimeric hydrolyzable tannin and epicatechin.
    Compds. 3-9 were also isolated from the leaf. Camelliins A (1) and B (2),
     dimeric hydrolyzable tannins isolated from the flower of C. japonica, were
    not found in the leaf, but were isolated from the fruit. Three complex
     tannins, 10, 13 and 15, and a dimeric hydrolyzable tannin, 17, along with
     3, 5, 7, 8, 23 and 24, were also isolated from the fruit. Camelliins A
     and B were isolated from the flower of C. sasanqua, and were found in the
    ext. of the leaf of C. oleifera. Schimawalin B (25), a dimeric
    hydrolyzable tannin, and 2, were isolated from the flower of Schima
     wallichii, a theaceous plant. Among the tannins isolated from
     the theaceous plants, 2, 10 and 25 inhibited the cytopathic
     effects induced by human immunodeficiency virus (HIV) (EC50, 4.8-11.8
     .mu.g/mL). Gemin D (6), a monomeric hydrolyzable tannin contained in
     several theaceous plants, also showed the anti-HIV activity
     (EC50, 2.0 .mu.g/mL).
     490-46-0 148132-92-7, Camelliatannin E
     148159-87-9, Camelliatannin D 153235-02-0
     154524-52-4, Camelliatannin C
     RL: BIOL (Biological study)
        (structure and anti-HIV activity of, from Camellia japonica and related
        plant species)
L20 ANSWER 7 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1994:128300 HCAPLUS
DOCUMENT NUMBER:
                        120:128300
                        Inhibitory effects of tannins on NADH dehydrogenases
TITLE:
                        of various organisms
                        Konishi, Kiyoshi; Adachi, Hirokazu; Ishigaki, Naoko;
AUTHOR(S):
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Jiang 10_077596

Kanamura, Yumiko; Adachi, Isao; Tanaka, Takashi;

Nishioka, Itsuo; Nonaka, Genichiro; Horikoshi, Isamu Fac. Med., Toyama Med. Pharm. Univ., Toyama, 930-01,

CORPORATE SOURCE:

Japan

Biological & Pharmaceutical Bulletin (1993), 16(7), SOURCE:

716-18

CODEN: BPBLEO; ISSN: 0918-6158

DOCUMENT TYPE:

Journal English

LANGUAGE:

AB

The effects of 33 purified tannins and related compds. on NADH-ubiquinone-1 oxidoreductase activity in 4 kinds of organism (Paracoccus denitrificans, Bacillus subtilis, Photobacterium phosphoreum, and Thermus thermophilus HB-8) and rat liver mitochondria were examd. In addn. to pentagalloylglucose, which was reported as a potent inhibitor of NADH dehydrogenases (NDH), sanguiin H-11, oolonghomobisflavan A, and polymd. procyanidin were potent inhibitors for both types of NDH (NDH-1 and NDH-2). It was found that some other tannins contained in tea were also inhibitors of NDH from all organisms.

37064-30-5, Procyanidin C-1 121844-27-7, Assamicain B ΙT

126737-60-8, Oolonghomobisflavan A

RL: BIOL (Biological study)

(inhibitory properties of, on NADH dehydrogenases of liver mitochondria and bacteria)

L20 ANSWER 8 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1990:196860 HCAPLUS

DOCUMENT NUMBER:

112:196860

TITLE:

Tannins and related compounds. XC. 8-C-ascorbyl (-)-epigallocatechin 3-0-gallate and novel dimeric flavan-3-ols, oolonghomobisflavans A and B, from

oolong tea. (3)

Hashimoto, Fumio; Nonaka, Genichiro; Nishioka, Itsuo AUTHOR(S): Fac. Pharm. Sci., Kyushu Univ., Fukuoka, 812, Japan CORPORATE SOURCE: Chemical & Pharmaceutical Bulletin (1989), 37(12),

CODEN: CPBTAL; ISSN: 0009-2363

SOURCE:

3255-63

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 112:196860

GΙ

A chem. examn. of the polyphenolic constituents in com. oolong tea AB led to the isolation of 32 compds., including a new flavan-3-ol, 2 novel dimeric flavan-3-ols named oolonghomobisflavans A and B, and 8 new proanthocyanidins, together with 21 known polyphenols, including proanthocyanidins, hydrolyzable tannins, and red pigments. On the

Ι

Jiang 10 077596

basis of chem. and spectroscopic evidence, the flavan-3-ol was characterized as 8-C-ascorbyl (-)-epigallocatechin 3-O-gallate (I), and oolonghomobisflavans A and B were detd. to be dimeric flavan-3-ols in which 2 units were linked through a methylene bridge at the 8,8'- and 8,6'-positions, resp. The structures of the new proanthocyanidins were elucidated, mainly by tannase hydrolysis and thiolytic degrdn., to be epicatechin-(4.beta..fwdarw.8)-epigallocatechin 3-0-gallate, epicatechin 3-0-gallate-(4.beta..fwdarw.8)-epigallocatechin 3-O-gallate, catechin-(4.alpha..fwdarw.8)-epigallocatechin 3-O-gallate, prodelphinidin B-4 3'-O-gallate, epicatechin 3-O-gallate-(4.beta..fwdarw.6)-epigallocatechin 3-O-gallate, epigallocatechin 3-O-gallate-(4.beta..fwdarw.6)-epicatechin 3-O-gallate, epi-afzelechin 3-O-gallate-(4.beta..fwdarw.6)epigallocatechin 3-O-gallate, and prodelphinidin B-2 3'-O-gallate. 23567-23-9 29106-49-8 79907-44-1 IT 126715-88-6, Oolonghomobisflavan B 126737-60-8, Oolonghomobisflavan A RL: BIOL (Biological study) (of oolong tea) 126716-06-1P TΤ RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and hydrolysis of) ΙT 126716-02-7P 126716-04-9P 126716-09-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (prepn. and methylation of) L20 ANSWER 9 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN 1989:476723 HCAPLUS ACCESSION NUMBER: 111:76723 DOCUMENT NUMBER: Tannins and related compounds. LXXVII. Novel TITLE: chalcan-flavan dimers, assamicains A, B and C, and a new flavan-3-ol and proanthocyanidins from the fresh leaves of Camellia sinensis L. var. assamica Kitamura Hashimoto, Fumio; Nonaka, Genichiro; Nishioka, Itsuo AUTHOR(S): CORPORATE SOURCE: Fac. Pharm. Sci., Kyushu Univ., Fukuoka, 812, Japan SOURCE: Chemical & Pharmaceutical Bulletin (1989), 37(1), 77-85 CODEN: CPBTAL; ISSN: 0009-2363 DOCUMENT TYPE: Journal LANGUAGE: English

CASREACT 111:76723

GΙ

OTHER SOURCE(S):

Three novel chalcan-flavan dimers, assamicains A (I), B, and C, and a new flavan-3-ol, (-)-epigallocatechin 3-O-caffeoate, and proanthocyanidins (catechin-(4a-8)-epigallocatechin and gallocatechin-(4.alpha.-8)-epicatechin) have been isolated, together with known flavan-3-ols, proanthocyanidins, theasinensins, and hydrolyzable tannins, from the fresh leaves of tea (C. sinensis var. assamica) (Camelliaceae). Structures have been established on the basis of spectroscopic evidence in conjunction with thiolytic degrdn. and enzymic hydrolysis.

Т

IT 121795-66-2, Assamicain A 121795-67-3

121844-27-7, Assamicain B

RL: BIOL (Biological study)

(from fresh leaves of Camellia sinensis assamica, isolation and structure and thiolytic degrdn. of)

IT 23567-23-9 29106-49-8 37064-30-5

RL: BIOL (Biological study)

(of fresh leaves of Camellia sinensis assamica)

IT 490-46-0, (-)-Epicatechin 24808-04-6, (-)-

Epiafzelechin

RL: BIOL (Biological study)

(of Camellia sinensis assamica fresh leaves)

IT 121795-71-9P 121795-72-0P 121844-29-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and methylation of)

IT 121795-70-8P

L20 ANSWER 10 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1988:470343 HCAPLUS

DOCUMENT NUMBER: 109:70343

TITLE: Tannins and related compounds. Part 62. Prenylated flavan-3-ols and procyanidins from Illicium anisatum

AUTHOR(S): Morimoto, Satoshi; Tanabe, Hisako; Nonaka, Genichiro;

Nishioka, Itsuo

CORPORATE SOURCE: Fac. Pharm. Sci., Kyushu Univ., Fukuoka, 812, Japan

Jiang 10 077596

Phytochemistry (1988), 27(3), 907-10 CODEN: PYTCAS; ISSN: 0031-9422 SOURCE:

DOCUMENT TYPE: Journal LANGUAGE: English

Two prenylated flavan-3-ols were isolated from I. anisatum and their

structures characterized by chem. and spectroscopic means as

8-(3,3-dimethylallyl)-(+)-catechin and <math>6-(3,3-dimethylallyl)-(+)-catechin.

In addn., a new proanthocyanidin was isolated, together with

several know compds. The structure of the procyanidin was established as catechin-(4.alpha..fwdarw.8)-epicatechin-(4.beta..fwdarw.8)-catechin.

20315-25-7, Procyanidin B-1 115532-12-2 ·IT

115532-13-3

RL: BIOL (Biological study)

(from Illicium anisatum, isolation and identification of)

L20 ANSWER 11 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

1988:408263 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 109:8263

Condensed tannins: desulfonation of TITLE:

hydroxybenzylsulfonic acids related to

proanthocyanidin derivatives

McGraw, Gerald W.; Laks, Peter E.; Hemingway, Richard AUTHOR(S):

Dep. Chem., Louisiana Coll., Pineville, LA, 71360, USA CORPORATE SOURCE:

Journal of Wood Chemistry and Technology (1988), 8(1), SOURCE:

91-109

CODEN: JWCTDJ; ISSN: 0277-3813

DOCUMENT TYPE: Journal LANGUAGE: English

Studies on the desulfonation of 2,4,6-trihydroxybenzylsulfonic acid (I) AB and Na epicatechin-(4.beta.)-sulfonate showed that sulfonates .alpha. to a phloroglucinol ring were good leaving groups at ambient temp. and pH >8.0. In contrast, hydroxybenzylsulfonic acids with resorcinol or phenol hydroxyl functionality resisted desulfonation even at pH 12 and

90.degree.. It was not possible to make (2,4,6-trihydroxyphenyl)(4-

hydroxyphenyl) methane or (2,4,6-trihydroxyphenyl) (2,4dihydroxyphenyl) methane by slow addn. of I to alk. solns. of phenol or resorcinol. However, facile desulfonation of I derivs. permitted the use of condensed tannins from most conifer barks as intermediates for the formulation of water-resistant, cold-setting, wood-laminating adhesives. Under typical adhesive formulation conditions, the sulfonic acid groups on tannin derivs. from conifer barks would be displaced, resulting in

water-insol. polymers.

IT 114903-07-0

RL: USES (Uses)

(disulfonation of model compds. for)

L20 ANSWER 12 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1986:28390 HCAPLUS

104:28390 DOCUMENT NUMBER:

Structure and antiherpetic activity among the tannins TITLE: Takechi, Masayuki; Tanaka, Yasuo; Takehara, Manabu; AUTHOR(S):

Nonaka, Genichiro; Nishioka, Itsuo

Fac. Pharm. Sci., Kinki Univ., Higashiosaka, Japan CORPORATE SOURCE: Phytochemistry (Elsevier) (1985), 24(10), 2245-50 SOURCE:

CODEN: PYTCAS; ISSN: 0031-9422

DOCUMENT TYPE: Journal English LANGUAGE:

In order to investigate the relationship between the antiherpetic activity and the structure of tannins, the activities of 38 such compds. were examd. The results indicate that the activities of hydroylzable tannins were dependent on the no. of galloyl or hexahydroxydiphenoyl groups and those of condensed ones on the degree of condensation. On the other hand,

the more active tannins were the more cytotoxic.

IT 12798-57-1 29106-49-8 37064-30-5

76250-49-2 79907-44-1

RL: BIOL (Biological study)

(herpes virus-inhibitory activity and cytotoxicity of, structure in relation to)

L20 ANSWER 13 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1985:403803 HCAPLUS

DOCUMENT NUMBER: 103:3803

TITLE: Influence of culture age and spermidine treatment on

the accumulation of phenolic compounds in suspension

cultures

AUTHOR(S): Muhitch, Michael J.; Fletcher, John S.

CORPORATE SOURCE: Bot. Microbiol. Dep., Univ. Oklahoma, Norman, OK,

73019, USA

SOURCE: Plant Physiology (1985), 78(1), 25-8

CODEN: PLPHAY; ISSN: 0032-0889

DOCUMENT TYPE: Journal LANGUAGE: English

The influence of cell age on phenol accumulation was examd. by detg. the quantity of individual phenols which accumulated in Paul's scarlet rose cultures of increasing age. During log-phase growth (days 7 and 11), only gallic acid and epicatechin-catechin were detected, whereas during early and late stationary phase (days 14 and 35) several other phenols were present in addn. to gallic acid and epicatechin—catechin. When stationary-phase cultures were provided with a supplement of sucrose and spermidine, a treatment previously shown to arrest the senescence of rose cultures (Muhitch M.J.; Edwards, L.A.; Fletcher, G.L., 1983) the cells then accumulated a higher level and a wider assortment of phenols. Thus, extending the lifespan of mature nondividing cell cultures offers a means of increasing the yield of secondary products by cultured cells.

IT . 76250-49-2P

RL: FORM (Formation, nonpreparative); PREP (Preparation) (formation of, in rose suspension culture, culture age and spermidine

effect on)

L20 ANSWER 14 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1982:526863 HCAPLUS

DOCUMENT NUMBER: 97:126863

TITLE: Polymeric proanthocyanidins. Carbon-13 NMR

studies of procyanidins

AUTHOR(S): Porter, Lawrence J.; Newman, Roger H.; Foo, L. Yeap;

Wong, Herbert; Hemingway, Richard W.

CORPORATE SOURCE: Chem. Div., Dep. Sci. Ind. Res., Petone, N. Z.

SOURCE: Journal of the Chemical Society, Perkin Transactions

1: Organic and Bio-Organic Chemistry (1972-1999)

(1982), (5), 1217-21

CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal LANGUAGE: English

AB The 13C NMR spectra of 40 natural and synthetic **proanthocyanidins**, related flavan-3-ols, and their peracetate derivs. were fully assigned. The structures of the related polymers from Vicia sativa and Chaenomeles chinensis are discussed in terms of spectral correlations.

IT 12798-57-1 20315-25-7 29106-49-8

37064-30-5 82245-99-6 82246-00-2

82894-95-9 82894-96-0 RL: PRP (Properties) (NMR of carbon-13 of)

L20 ANSWER 15 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

Jiang 10_077596

ACCESSION NUMBER: 1981:44035 HCAPLUS

DOCUMENT NUMBER: 94:44035

TITLE: Novel biflavonoids, chalcan-flavan dimers from Gambir

AUTHOR(S): Nonaka, Genichiro; Nishioka, Itsuo

CORPORATE SOURCE: Fac. Pharm. Sci., Kyushu Univ., Fukuoka, 812, Japan SOURCE: Chemical & Pharmaceutical Bulletin (1980), 28(10),

3145-9

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The homologous series of novel chalcan-flavan dimers, gambiriin A1 (I), A2

(II), A3 (III), B1 (IV), B2 (V) and B3 (VI), along with a

proanthocyanidin dimer, gambiriin C (epiafzelechin-catechin), were

isolated from Gambir (Uncaria gambir). The structure elucidation of these chalcan-flavan dimers is reported, based on phys.-chem properties and

derivatization.

IT 76236-92-5 76250-48-1 76250-49-2

RL: BIOL (Biological study).

(Gambir biflavonoid, structure of)

L20 ANSWER 16 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1976:461371 HCAPLUS

DOCUMENT NUMBER: 85:61371

TITLE: Studies on beer haze formation. II. Dimeric

flavanoids observed in profiles of beer: nylon 66

adsorbates

AUTHOR(S): Gracey, D. E. F.; Barker, R. L.

CORPORATE SOURCE: Beverage Sci. Dep., Labatt Brew. Canada Ltd., London,

ON, Can.

SOURCE: Journal of the Institute of Brewing (1976), 82(2),

78-83

CODEN: JINBAL; ISSN: 0046-9750

DOCUMENT TYPE: Journal LANGUAGE: English

AB A peak in the gas chromatog. profile of beer: Nylon adsorbates has been found to comprise 3 unresolved biflavan components. One of these, mol. formula C30H26O12, consists of 2 C-C linked catechin units and has the same structure as a biflavan obtained by the acid catalyzed interaction

same structure as a biflavan obtained by the acid catalyzed interaction between cyanidiol and catechin. It appears to be the same as the procyanidin previously isolated from beer. The other components, both with mol. formula C30H26O13, have the same skeletal structure as the 1st, but are linked catechin-gallocatechin pairs, one being a prodelphinidin, the other a procyanidin. Dicatechin [20454-55-1], a tannin obtained by treatment of catechin with dil. mineral acid, also seems

likely to be a component of the adsorbate profiles.

IT 15514-06-4 20454-55-1

RL: BOC (Biological occurrence); BSU (Biological study, unclassified);

BIOL (Biological study); OCCU (Occurrence)

(of beer)

L20 ANSWER 17 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1970:75613 HCAPLUS

DOCUMENT NUMBER: 72:75613

TITLE: Extractives of the mycorrhizas and roots of Pinus

radiata and Pseudotsuga menziesii

AUTHOR(S): Ishikura, Nariyuki; Ishikura, N.

CORPORATE SOURCE: Div. Forest Prod., C.S.I.R.O., Melbourne, Australia SOURCE: Australian Journal of Biological Sciences (1969),

22(6), 1425-36

CODEN: AJBSAM; ISSN: 0004-9417

DOCUMENT TYPE: Journal

LANGUAGE: English

```
The amts. of acetone extractives from mycorrhizas and their polyphenolic
AB
     portion were variable over a 6-month period. During August the amts. of
     extractives and polyphenols were higher in slow- than in fast-growing P.
     radiata seedlings. The amt. of extractives in the roots were greater than
     those in the mycorrhizas but in the latter the polyphenols were concd. in
     the outerlayer. The compn. of the mycorrhizal and root extractives of P.
     radiata were very similar and in addn. to resin contained catechin, 2
     components that are very similar to 3,5,3',4'-tetrahydroxystilbene and one
     of its glucosides, and leuco-cyanidin polymers. The mycorrhizas of P.
     menziesii contain 15 components, including catechin, epicatechin
     , leucocyanidin polymers, and a polyene. With the exception of the latter
     the roots of P. menziesii contained the same components and in addn.
     poriolin, poriol, taxifolin, taxifolin-3-glucoside, and
     quercetin-3-qlucoside. Evidence supports the view that the polyphenols
     are formed in situ and appear to be formed in enhanced amts. in the tannin
     layer of mycorrhizas. Their possible role in the establishment of
     mycorrhizas is discussed.
     490-46-0 14348-16-4
TΤ
     RL: BOC (Biological occurrence); BSU (Biological study, unclassified);
     BIOL (Biological study); OCCU (Occurrence)
        (of Pseudotsuga menziesii)
L20 ANSWER 18 OF 19 HCAPLUS COPYRIGHT 2003 ACS on STN
                         1968:459534 HCAPLUS
ACCESSION NUMBER:
                         69:59534
DOCUMENT NUMBER:
                         Phenolic natural substances. IX. Diastereomeric
TITLE:
                         catechin 3-glucosides and 3-gallates
                         Weinges, Klaus; Seiler, Dieter
AUTHOR(S):
                         Univ. Heidelberg, Heidelberg, Fed. Rep. Ger.
CORPORATE SOURCE:
                         Justus Liebigs Annalen der Chemie (1968), 714, 193-204
SOURCE:
                         CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         German
     The partial acetylation of natural (+)-catechol (I) and (-)-epicatechol
AR
     gave 3', 4', 5, 7-tetra-0-acetyl-(+)-catechol and 3', 4', 5, 7-tetra-0-acetyl(-)-
     epicatechol, resp., which treated with tetra-O-acetyl-.alpha.-D-
     glucopyranosyl bromide gave peracetylated 3-D-glucopyranosides.
     latter upon sapon. yielded (+)-catechol 3-D-glucopyranoside and
     (-)-epicatechol 3-D-glucopyranoside, resp. Similarly were prepd.
     (+)-catechol 3-gallate and (-)-epicatechol 3-gallate. The benzylation of
     I gave 3',4',5,7-tetra-O-benzyl-(+)-catechol and 8-benzyl-3',4',5,7-tetra-
     O-benzyl-(+)-catechol. The latter gave upon hydrogenolysis
     8-benzyl-(+)-catechol, a model compd. for proanthocyanidins
     isolated from fruits.
IΤ
     20728-79-4P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
                      HCAPLUS COPYRIGHT 2003 ACS on STN
L20 ANSWER 19 OF 19
ACCESSION NUMBER:
                         1963:66387 HCAPLUS
DOCUMENT NUMBER:
                         58:66387
ORIGINAL REFERENCE NO.: 58:11319g-h,11320a-e
                         Acid-catalyzed autocondensation of hydroxyflavans.
TITLE:
                         Condensed proanthocyanidins
AUTHOR(S):
                         Freudenberg, K.; Weinges, K.
                         Univ. Heidelberg, Germany
CORPORATE SOURCE:
                         Tetrahedron Letters (1962) 1073-6
SOURCE:
                         CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         German
     For diagram(s), see printed CA Issue.
     cf. CA 52, 11831d. Self-condensation of catechol (I) (loc. cit.) gave the
AΒ
     dimer (II), converted to the undecaacetate, m. 221-3.degree..
```

Condensation in very dil. hot acid according to Mayer and Merger (CA 55, 27256h) gave a product (III or IV) contg. 1 mol. H2O less than II. Repetition of the self-condensation in the cold or heating I in dil. AcOH gave II together with a trace of III (or IV). II together with III (or IV) was found in block gambier with II prevalent. Pure II treated with hot dil. acid gave III (or IV) together with traces of I. Tetramethylcatechol condensed by heating with 1,3,5-(HO)3-C6H3 gave the methylated deriv. of the condensation product (V or VI) prepd. by condensation of 1,3,5-(HO)3C6H3 with I according to M. and M. (CA 55, 24633a). Self-condensation of I at 90.degree. in very dil. acid at pH 4 60 hrs. gave 2:3 II-III (or IV), together with many other products. Under the previously described conditions in the cold no epimerization of $\ensuremath{\text{I}}$ occurred. Self-condensation of 4' 7-dihydroxyflavan (VII) in cold acid took place with an increase in OH groups but no dimer was isolated on account of the rapid formation of high-mol.-wt. products. VII in 1:1 pure dioxane-0.2N HCl kept 4 days at 20.degree. with total disappearance of VII (paper chromatogram), and the condensate (VIII.) acetylated gave a cryst. acetate, m. 137-8.degree., taken up in MeOH and treated with CH2N2 in Et20 to give the corresponding cryst. hexamethyl ether, m. 102-4.degree.. findings did not confirm the proposed rearrangement. The previously described condensed proanthocyanidin (IX) (CA 55, 24730i). from Cratae-gus oxyacantha gave a decaacetate and an octamethyl ether with 2 OH groups susceptible to acetylation. IX agreed in Rf values in various solvent's and in infrared spectrum with that of a compd. obtained by Forsyth and Roberts (CA 53, 1318i) from cacao beans. A proposed formula for IV with open half-ketal linkages is not preferable to the previously proposed closed ketol formulation. 96554-19-7, 6-Chromanethanol, .beta., 2-bis(3, 4-dihydroxyphenyl)-3,5,7-trihydroxy-.alpha.-(2,4,6-trihydroxybenzyl)- 107895-54-5, 3,3',4',5,7-Flavanpentol, 6-[.alpha.-(2,3-dihydro-4,6-dihydroxy-2benzofuranyl)-3,4-dihydroxybenzyl]-(prepn. of)

=> => select hit rn 120 1-19 E1 THROUGH E63 ASSIGNED =>

ΙT

=>

=> fil reg FILE 'REGISTRY' ENTERED AT 09:19:16 ON 23 SEP 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 22 SEP 2003 HIGHEST RN 591204-55-6 DICTIONARY FILE UPDATES: 22 SEP 2003 HIGHEST RN 591204-55-6

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Experimental and calculated property data are now available. See HELP

PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> => => d his 121

> (FILE 'HCAPLUS' ENTERED AT 09:18:50 ON 23 SEP 2003) SELECT HIT RN L20 1-19

FILE 'REGISTRY' ENTERED AT 09:19:16 ON 23 SEP 2003 - L21 52 S E1-E63 AND L7

=>

=*>* =>

=> d ide can 121 1-52

L21 ANSWER 1 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 439791-73-8 REGISTRY

CN 1-Benzopyrylium, 8-[1-[(2R,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3-(.beta.-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C40 H41 O18 . Cl

SR CA

LC STN Files: CA, CAPLUS

CRN (220991-11-7)

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

◆ C1 -

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:62456

L21 ANSWER 2 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 189073-31-2 REGISTRY

CN 1-Benzopyrylium, 8-[1-[(2R,3S)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]ethyl]-3-(.beta.-D-glucopyranosyloxy)-5,7-dihydroxy-2-(4-hydroxy-3,5-dimethoxyphenyl)-, chloride (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C40 H41 O18 . Cl

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

⊕ Cl -

4 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:384353

REFERENCE 2: 138:220639

REFERENCE 3: 137:62456

REFERENCE 4: 126:292581

L21 ANSWER 3 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 176107-91-8 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 6-[[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]methyl]-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,6(2R*,3R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C45 H36 O22

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:331679

L21 ANSWER 4 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **159702-16-6** REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 6-[1-[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxybenyl)-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxybhenyl)-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,6[S*(2R*,3R*)]]]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6,8'-(S)-(Ethane-1,1-diyl)diepigallocatechin 3,3'-di-O-gallate

FS STEREOSEARCH

MF C46 H38 O22

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 5 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-15-7 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-4-[(2-hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,4.beta.,8(S*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H30 O12 S2

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 6 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-14-6 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-5,7-dihydroxy-4-[(2-hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,4.beta.,8(R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H30 O12 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 7 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-13-5 REGISTRY

CN Benzoic acid, 3,4;5-trihydroxy-, 6-[1-[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]ethyl]-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,6[R*(2R*,3R*)]]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 6,8'-(R)-(Ethane-1,1-diyl)diepigallocatechin 3,3'-di-O-gallate

FS STEREOSEARCH

MF C46 H38 O22

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 8 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-12-4 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, ethylidenebis[3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-6,3-diyl] ester,
[2R-[2.alpha.,3.alpha.,6(2R*,3R*)]]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN (-)-6,6'-(Ethane-1,1-diyl)diepigallocatechin 3,3'-di-O-gallate

FS STEREOSEARCH

MF C46 H38 O22

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 9 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-11-3 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-4-[(2-hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-, [2R-[2.alpha.,3.alpha.,4.beta.,8(R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H26 O8 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 10 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-10-2 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-4-[(2-hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-,

[2R-[2.alpha.,3.alpha.,4.beta.,8(S*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H26 O8 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 11 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-09-9 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-4-[(2-hydroxyethyl)thio]-6-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,4.beta.,6(S*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H30 O13 S2

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 12 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-08-8 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-4-[(2-hydroxyethyl)thio]-6-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, [2R-[2.alpha.,3.alpha.,4.beta.,6(R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H30 O13 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 13 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **159663-07-7** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-4-[(2-hydroxyethyl)thio]-6-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,4.beta.,6(R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H26 O9 S2

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 14 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-06-6 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-4-[(2-hydroxyethyl)thio]-6-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,4.beta.,6(S*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H26 O9 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 15 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **159663-05-5** REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-4-[(2-hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5-

trihydroxyphenyl)-2H-1-benzopyran-3-yl ester, [2R-

[2.alpha., 3.alpha., 4.beta., 8(R*)]] - (9CI) (CA INDEX NAME)

STEREOSEARCH FS

MF C28 H30 O13 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

122:30169 REFERENCE 1:

ANSWER 16 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN L21

159663-04-4 REGISTRY RN

Benzoic acid, 3,4,5-trihydroxy-, 3,4-dihydro-5,7-dihydroxy-4-[(2-CN hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5trihydroxyphenyl) -2H-1-benzopyran-3-yl ester, [2R-[2.alpha., 3.alpha., 4.beta., 8(S*)]] - (9CI) (CA INDEX NAME)

STEREOSEARCH FS

C28 H30 O13 S2 MF

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 17 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-03-3 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 8-ethyl-3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-, (2R-cis)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C17 H18 O7

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 18 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-02-2 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-4-[(2-hydroxyethyl)thio]-8-[1-[(2-

hydroxyethyl)thio]ethyl]-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,4.beta.,8(R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H26 O9 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 122:30169

L21 ANSWER 19 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 159663-01-1 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-4-[(2-hydroxyethyl)thio]-8-[1-[(2-hydroxyethyl)thio]ethyl]-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,4.beta.,8(S*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C21 H26 O9 S2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 122:30169

ANSWER 20 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN L21

RN 154524-52-4 REGISTRY

D-Glucitol, 1-C-[(2R, 3R)-2-(3, 4-dihydroxyphenyl)-3, 4-dihydro-3, 5, 7-CN trihydroxy-2H-1-benzopyran-6-yl]-, cyclic 2,3:4,6-bis[(1S)-4,4',5,5',6,6'hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate], (1S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

7H-Dibenzo[g,i][1,5]dioxacycloundecin, D-glucitol deriv. CN

D-Glucitol, 1-C-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-CN benzopyran-6-yl]-, cyclic 2,3:4,6-bis(4,4',5,5',6,6'-hexahydroxy[1,1'biphenyl]-2,2'-dicarboxylate), [1S(2R,3R),2(S),4(S)]-

Dibenzo[f,h][1,4]dioxecin, D-glucitol deriv.

OTHER NAMES:

Camelliatannin C CN

MF C49 H38 O28

SR CA

CA, CAPLUS LC STN Files:

PAGE 1-A

PAGE 2-A

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:25626

REFERENCE 2: 121:57793

REFERENCE 3: 120:253139

L21 ANSWER 21 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 153235-02-0 REGISTRY

CN D-Glucitol, 1-C-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-, cyclic 2.fwdarw.2:3.fwdarw.2'-[4-(6-carboxy-2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate], 2-ester with D-glucitol cyclic 4,6-(4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate) 3-(3,4,5-trihydroxybenzoate), [1S(2R,3R),2[S(S)]]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 7H-Dibenzo[g,i][1,5]dioxacycloundecin, D-glucitol deriv.

CN Dibenzo[f,h][1,4]dioxecin, D-glucitol deriv.

MF C69 H58 O42

SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A

PAGE 2-A

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 120:253139

L21 ANSWER 22 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 148159-87-9 REGISTRY

CN D-Glucose, cyclic 4,6-[(1S)-4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 3-(3,4,5-trihydroxybenzoate), 2-ester with 1-C-[(2R,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-yl]-D-glucitol cyclic 2.fwdarw.2:3.fwdarw.2'-[(1S)-4-(6-carboxy-2,3,4-trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-

2,2'-dicarboxylate] cyclic 4,6-[(1S)-4,4',5,5',6,6'-hexahydroxy[1,1'biphenyl]-2,2'-dicarboxylate] (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: 7H-Dibenzo[q,i][1,5]dioxacycloundecin, D-glucose deriv. CN D-Glucose, cyclic 4,6-(4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-CN dicarboxylate) 3-(3,4,5-trihydroxybenzoate), 2-ester with 1-C-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-benzopyran-8-y1]-D-glucitol cyclic 2.fwdarw.2:3.fwdarw.2'-[4-(6-carboxy-2,3,4trihydroxyphenoxy)-4',5,5',6,6'-pentahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] cyclic 4,6-(4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'dicarboxylate), stereoisomer Dibenzo[f,h][1,4]dioxecin, D-glucose deriv. CN OTHER NAMES: CN Camelliatannin D MF C83 H62 O50 SR CA STN Files: CA, CAPLUS LC *** STRUCTURE DIAGRAM IS NOT AVAILABLE *** 4 REFERENCES IN FILE CA (1907 TO DATE) 4 REFERENCES IN FILE CAPLUS (1907 TO DATE) 124:21761 REFERENCE 1: REFERENCE 2: 121:57793 3: 120:253139 REFERENCE REFERENCE 119:117629 4: ANSWER 23 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN L21 148132-92-7 REGISTRY RN D-Glucitol, 1-C-[(2R,3R)-2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-CN trihydroxy-2H-1-benzopyran-8-yl]-, cyclic 2,3:4,6-bis[(1S)-4,4',5,5',6,6'hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate], (1S)- (9CI) (CA INDEX NAME) OTHER CA INDEX NAMES: 7H-Dibenzo[g,i][1,5]dioxacycloundecin, D-glucitol deriv. CN D-Glucitol, 1-C-[2-(3,4-dihydroxyphenyl)-3,4-dihydro-3,5,7-trihydroxy-2H-1-CN benzopyran-8-yl]-, cyclic 2,3:4,6-bis(4,4',5,5',6,6'-hexahydroxy[1,1'biphenyl]-2,2'-dicarboxylate), [1S(2R, 3R),2(S),4(S)]-Dibenzo[f,h][1,4]dioxecin, D-glucitol deriv. CN OTHER NAMES: CN Camelliatannin E MF C49 H38 O28 SR CA

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STN Files:

LC

CA, CAPLUS

PAGE 2-A

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:25626

REFERENCE 2: 121:57793

REFERENCE 3: 120:253139

REFERENCE 4: 119:117629

L21 ANSWER 24 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 126737-60-8 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, methylenebis[(2R,3R)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8,3-diyl] ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, methylenebis[3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8,3-diyl] ester, [2R-[2.alpha.,3.alpha.,8(2R*,3R*)]]-

OTHER NAMES:

CN (-)-Oolonghomobisflavan A

CN Oolonghomobisflavan A

FS STEREOSEARCH

MF C45 H36 O22

SR CA

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, NAPRALERT (*File contains numerically searchable property data)

PAGE 1-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:367880

REFERENCE 2: 131:2076

REFERENCE 3: 124:331679

REFERENCE 4: 120:128300

REFERENCE 5: 112:196860

L21 ANSWER 25 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **126716-09-4** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 8,8'-methylenebis[3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-, (2R,2'R,3R,3'R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 8,8'-methylenebis[3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,8(2'R*,3'R*)]]-

OTHER NAMES:

CN Didesgalloyloolonghomobisflavan A

MF C31 H28 O14

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:367880

REFERENCE 2: 112:196860 .

L21 ANSWER 26 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 126716-06-1 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, methylenebis[(2R,3R)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-6,3-diyl] ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, methylenebis[3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-6,3-diyl] ester, [2R-[2.alpha.,3.alpha.,6(2R*,3R*)]]-

OTHER NAMES:

CN Oolonghomobisflavan C

FS STEREOSEARCH

MF C45 H36 O22

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER

(*File contains numerically searchable property data)

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:172213

REFERENCE 2: 124:331679

REFERENCE 3: 112:196860

L21 ANSWER 27 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 126716-04-9 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 6,6'-methylenebis[3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,6(2R*,3R*)]]- (9CI) (CA INDEX NAME)

MF C31 H28 O14

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS (*File contains numerically searchable property data)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE) .

REFERENCE 1: 112:196860

L21 ANSWER 28 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 126716-02-7 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 6-[[3,4-dihydro-3,5,7-trihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]methyl]-3,4-dihydro-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,6(2R*,3R*)]]- (9CI) (CA INDEX NAME)

MF C31 H28 O14

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 112:196860

L21 ANSWER 29 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN RN 126715-88-6 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (2R,3R)-6-[[(2R,3R)-3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]methyl]-3,4-dihydro-5-hydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3,7-diyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 6-[[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]methyl]-3,4-dihydro-5-hydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3,7-diyl ester, [2R-[2.alpha.,3.alpha.,6(2R*,3R*)]]-

OTHER NAMES:

CN Oolonghomobisflavan B

MF C52 H40 O26

SR CA

LC STN Files: CA, CAPLUS, NAPRALERT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 112:196860

L21 ANSWER 30 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 121844-29-9 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-8-[2-hydroxy-1-(3,4,5-trihydroxyphenyl)-3-(2,4,6-trihydroxyphenyl)propyl]-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,8(1R*,2R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H28 O14

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT (*File contains numerically searchable property data)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 111:76723

L21 ANSWER 31 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 121844-27-7 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (1R,2R)-2-[(2R,3R)-3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]-2-(3,4,5-trihydroxyphenyl)-1-[(2,4,6-trihydroxyphenyl)methyl]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 2-[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]-2-(3,4,5-trihydroxyphenyl)-1-[(2,4,6-trihydroxyphenyl)methyl]ethyl ester, [2R-[2.alpha.,3.alpha.,8(1R*,2R*)]]-

OTHER NAMES:

CN (-)-Assamicain B

CN Assamicain B

FS STEREOSEARCH

MF C44 H36 O22

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, NAPRALERT (*File contains numerically searchable property data)

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:367880

REFERENCE 2: 124:331679

REFERENCE 3: 120:128300

REFERENCE 4: 111:76723

L21 ANSWER 32 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **121795-72-0** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-6-[2-hydroxy-3-(2,4,6-trihydroxyphenyl)-1-(3,4,5-trihydroxyphenyl)propyl]-2-(3,4,5-trihydroxyphenyl)-; [2R-[2.alpha.,3.alpha.,6(1S*,2R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H28 O14

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 111:76723

L21 ANSWER 33 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **121795-71-9** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 3,4-dihydro-8-[2-hydroxy-1-(3,4,5-trihydroxyphenyl)-3-(2,4,6-trihydroxyphenyl)propyl]-2-(3,4,5-trihydroxyphenyl)-, [2R-[2.alpha.,3.alpha.,8(1S*,2R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H28 O14

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT (*File contains numerically searchable property data)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 111:76723

L21 ANSWER 34 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 121795-70-8 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, 2-[3,4-dihydro-3,5,7-trihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-6-yl]-2-(3,4,5-trihydroxyphenyl)-1[(2,4,6-trihydroxyphenyl)methyl]ethyl ester, [2R[2.alpha.,3.beta.,6(1R*,2R*)]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C37 H32 O18

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 111:76723

L21 ANSWER 35 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 121795-67-3 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (1R,2S)-2-[(2R,3R)-3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-6-yl]-2-(3,4,5-trihydroxyphenyl)-1-[(2,4,6-trihydroxyphenyl)methyl]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 2-[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-6-yl]-2-(3,4,5-trihydroxyphenyl)-1-[(2,4,6-trihydroxyphenyl)methyl]ethyl ester, [2R-[2.alpha.,3.alpha.,6(1R*,2S*)]]-

OTHER NAMES:

CN (+)-Assamicain C

CN Assamicain C

FS STEREOSEARCH

MF C44 H36 O22

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, NAPRALERT, TOXCENTER (*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE) 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:367880

REFERENCE 2: 133:172213

REFERENCE

3: 124:331679

REFERENCE

4: 111:76723

L21 ANSWER 36 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 121795-66-2 REGISTRY

CN Benzoic acid, 3,4,5-trihydroxy-, (1R,2S)-2-[(2R,3R)-3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]-2-(3,4,5-trihydroxyphenyl)-1-[(2,4,6-trihydroxyphenyl)methyl]ethyl ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoic acid, 3,4,5-trihydroxy-, 2-[3,4-dihydro-5,7-dihydroxy-3-[(3,4,5-trihydroxybenzoyl)oxy]-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-8-yl]-2-(3,4,5-trihydroxyphenyl)-1-[(2,4,6-trihydroxyphenyl)methyl]ethyl ester, [2R-[2.alpha.,3.alpha.,8(1R*,2S*)]]-

OTHER NAMES:

CN (-)-Assamicain A CN Assamicain A FS STEREOSEARCH

MF C44 H36 O22

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, NAPRALERT, TOXCENTER (*File contains numerically searchable property data)

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:367880

REFERENCE 2: 133:172213

REFERENCE 3: 124:331679

REFERENCE 4: 111:76723

L21 ANSWER 37 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 115532-13-3 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-6-(3-methyl-2-butenyl)-, (2R-trans)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H22 O6

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:70343

L21 ANSWER 38 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **115532-12-2** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-8-(3-methyl-2-butenyl)-, (2R-trans)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H22 O6

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:70343

L21 ANSWER 39 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 114903-07-0 REGISTRY

CN [4,8'-Bi-2H-1-benzopyran]-6,6',8-trimethanesulfonic acid, 2,2'-bis(3,4-dihydroxyphenyl)-3,3',4,4'-tetrahydro-3,3',5,5',7,7'-hexahydroxy-, [2.alpha.,3.alpha.,4.beta.(2'R*,3'S*)]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C33 H32 O21 S3

SR CA

LC · STN Files: CA, CAPLUS

Relative stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:8263

L21 ANSWER 40 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 107895-54-5 REGISTRY

CN 3,3',4',5,7-Flavanpentol, 6-[.alpha.-(2,3-dihydro-4,6-dihydroxy-2-benzofuranyl)-3,4-dihydroxybenzyl]- (7CI) (CA INDEX NAME)

FS .3D CONCORD

MF C30 H26 O11

SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 59:82178

REFERENCE 2: 58:66387

L21 ANSWER 41 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 96554-19-7 REGISTRY.

CN 6-Chromanethanol, .beta., 2-bis(3, 4-dihydroxyphenyl)-3, 5, 7-trihydroxy-.alpha.-(2, 4, 6-trihydroxybenzyl)- (6CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3,3',4',5,7-Flavanpentol, 6-[3,4-dihydroxy-.alpha.-(.alpha.,2,4,6-tetrahydroxyphenethyl)benzyl]- (7CI)

FS 3D CONCORD

MF C30 H28 O12

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

$$CH_2$$
 CH_2
 CH
 OH
 OH
 OH
 OH
 OH
 OH
 OH

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 61:61565

REFERENCE 2: 59:82178

REFERENCE 3: 59:41567

REFERENCE 4: 58:41030

L21 ANSWER 42 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **82894-96-0** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-8-[(2-

hydroxyphenyl)methyl]-, (2R-cis)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H20 O7

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 97:126863

L21 ANSWER 43 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 82894-95-9 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-6-[(2-hydroxyphenyl)methyl]-, (2R-cis)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H20 O7

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 97:126863

L21 ANSWER 44 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **82246-00-2** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-8-[(2-hydroxyphenyl)methyl]-, (2R-trans)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H20 O7

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 97:126863

REFERENCE 2: 97:38170

L21 ANSWER 45 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **82245-99-6** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-6-[(2-hydroxyphenyl)methyl]-, (2R-trans)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H20 O7

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 97:126863

REFERENCE 2: 97:38170

L21 ANSWER 46 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **81555-08-0** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 8,8'-methylenebis[2-(3,4-dihydroxyphenyl)-3,4-dihydro-, (2R,2'R,3S,3'S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 8,8'-methylenebis[2-(3,4-dihydroxyphenyl)-3,4-dihydro-, [2R-[2.alpha.,3.beta.,8(2'R*,3'S*)]]-

OTHER NAMES:

CN Bis-8,8'-catechinylmethane

MF C31 H28 O12

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:384353

REFERENCE 2: 138:163393

REFERENCE 3: 97:39430

L21 ANSWER 47 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 76250-49-2 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-8-[(1S,2S)-1-(3,4-dihydroxyphenyl)-2-hydroxy-3-(2,4,6-trihydroxyphenyl)propyl]-3,4-dihydro-, (2R,3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-8-[1-(3,4-dihydroxyphenyl)-2-hydroxy-3-(2,4,6-trihydroxyphenyl)propyl]-3,4-dihydro-, [2R-[2.alpha.,3.beta.,8(1S*,2S*)]]-

OTHER NAMES:

CN Gambiriin Al

FS STEREOSEARCH

MF C30 H28 O12

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER (*File contains numerically searchable property data)

6 REFERENCES IN FILE CA (1907 TO DATE) 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 104:28390

REFERENCE 2: 103:3803

REFERENCE 3: 100:171521

REFERENCE 4: 97:109779

REFERENCE 5: 97:92028

REFERENCE 6: 94:44035

L21 ANSWER 48 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 76250-48-1 REGISTRY .

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-8-[(1S,2S)-1-(3,4-dihydroxyphenyl)-2-hydroxy-3-(2,4,6-trihydroxyphenyl)propyl]-3,4-dihydro-, (2S,3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-8-[1-(3,4-dihydroxyphenyl)-2-hydroxy-3-(2,4,6-trihydroxyphenyl)propyl]-3,4-dihydro-, [2S-[2.alpha.,3.alpha.,8(1R*,2R*)]]-

OTHER NAMES:

CN Gambiriin A2

FS STEREOSEARCH

MF C30 H28 O12

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 97:109779

REFERENCE 2: 97:92028

REFERENCE 3: 94:44035

L21 ANSWER 49 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN **76236-92-5** REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-6-[1-(3,4-dihydroxyphenyl)-2-hydroxy-3-(2,4,6-trihydroxyphenyl)propyl]-3,4-dihydro-

(9CI) (CA INDEX NAME)

OTHER NAMES:

CN Gambiriin A3

MF C30 H28 O12

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 97:109779

REFERENCE 2: 97:92028

REFERENCE 3: 94:44035

L21 ANSWER 50 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 20728-79-4 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-8-(phenylmethyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-3,4-dihydro-8-(phenylmethyl)-, (2R-trans)-

CN 3,3',4',5,7-Flavanpentol, 8-benzyl-, (+)- (8CI)

FS STEREOSEARCH

MF C22 H20 O6

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:252168

REFERENCE 2: 102:72319

REFERENCE 3: 100:209512

REFERENCE 4: 69:59534

L21 ANSWER 51 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 20454-55-1 REGISTRY

CN 2H-1-Benzopyran-3,5,7-triol, 2-(3,4-dihydroxyphenyl)-8-[1-(3,4-dihydroxyphenyl)-2-hydroxy-3-(2,4,6-trihydroxyphenyl)propyl]-3,4-dihydro-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3,3',4',5,7-Flavanpentol, 8-[3,4-dihydroxy-.alpha.-(.alpha.,2,4,6-tetrahydroxyphenethyl)benzyl]- (8CI)

OTHER NAMES:

CN Dicatechin

MF C30 H28 O12

LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS (*File contains numerically searchable property data)

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HO CH OH OH OH OH
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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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5 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 85:92155
REFERENCE 2: 85:61371

REFERENCE 3: 69:10323

REFERENCE 4: 68:22830

REFERENCE 5: 63:32886

L21 ANSWER 52 OF 52 REGISTRY COPYRIGHT 2003 ACS on STN

RN 14348-16-4 REGISTRY

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-6-methyl-, (2S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-6-methyl-, (S)-

CN Flavanone, 4',5,7-trihydroxy-6-methyl- (8CI)

OTHER NAMES:

CN 8-Demethylfarrerol

CN NSC 180246

CN Poriol

FS STEREOSEARCH

DR 21568-22-9

MF C16 H14 O5

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, NAPRALERT, TOXCENTER

(*File contains numerically searchable property data)

11 REFERENCES IN FILE CA (1907 TO DATE)

11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:300442

REFERENCE 2: 138:69904

REFERENCE 3: 115:228399

REFERENCE 4: 107:233168

REFERENCE 5: 88:85995

REFERENCE 6: 78:55368

REFERENCE 7: 76:70284

REFERENCE 8: 72:75613

REFERENCE 9: 70:88193

REFERENCE 10: 70:68063